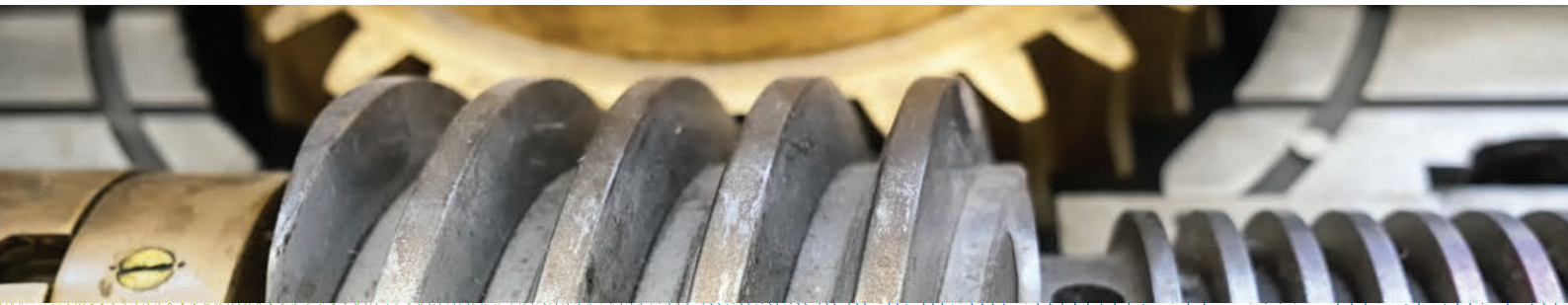


# Mobil Glygoyle™ Series

High-performance gear, bearing and compressor oils



Energy lives here™

These fully synthetic, polyalkylene glycol (PAG) lubricants are formulated to perform under operating conditions beyond the capabilities of other synthetic lubricants and mineral oils. Mobil Glygoyle™ Series oils can help provide:

- Excellent protection at a wide temperature range
- Maximized gear efficiency and seal life
- Easy startup even at low temperatures

### Key benefits



High levels of energy efficiency relative to mineral and polyalphaolefin (PAO)-based oils



Long lubrication intervals help minimize maintenance downtime and costs



Promote long equipment life — helping limit replacement costs — through outstanding gear protection, even under severe loads

**Approximately 10% increase in thermal conductivity** over mineral and PAO oils, helping to lower operating temperatures and enhance component life



### Specifications and approvals

| Mobil Glygoyle Series                                      | 150    | 220    | 320    | 460    | 680    | 1,000  |
|--|--------|--------|--------|--------|--------|--------|
| Meets requirements of:                                     |        |        |        |        |        |        |
| FDA 21 CFR 178.3570  | •      | •      | •      | •      | •      | •      |
| NSF H1   | •      | •      | •      | •      | •      | •      |
| NSF Registration Number                                    | 136572 | 136642 | 136643 | 136467 | 136468 | 136470 |
| Mobil Glygoyle Series has the following builder approvals: |        |        |        |        |        |        |
| Fives Cincinnati   |        | P-39   |        | P-39   |        |        |

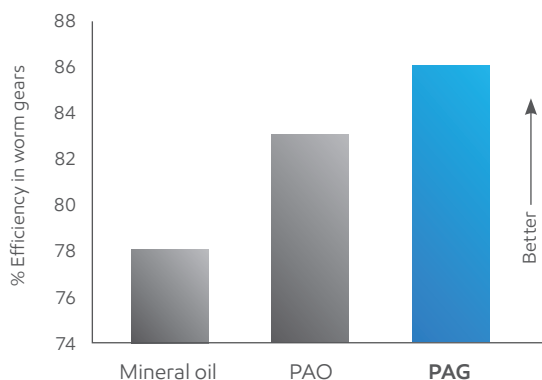
# Mobil Glygoyle™ Series

## Typical properties\*

| Mobil Glygoyle Series                             | 68    | 100   | 150   | 220   | 320   | 460   | 680   | 1000   |
|---|-------|-------|-------|-------|-------|-------|-------|--------|
| ISO VG grade                                      | 68    | 100   | 150   | 220   | 320   | 460   | 680   | 1000   |
| Viscosity, ASTM D445                              |       |       |       |       |       |       |       |        |
| cSt @ 40°C  | 68.0  | 100.0 | 150.0 | 220.0 | 320.0 | 460.0 | 680.0 | 1000.0 |
| cSt @ 100°C                                       | 11.8  | 17.3  | 26.1  | 38.1  | 55.2  | 77.2  | 112.4 | 165.8  |
| Viscosity Index, ASTM D2270                       | 170   | 190   | 210   | 225   | 240   | 250   | 265   | 285    |
| Density 15°C ASTM D4052                           | 1.079 | 1.079 | 1.078 | 1.077 | 1.077 | 1.076 | 1.076 | 1.076  |
| Pour Point, ASTM D97, °C                          | -30   | -30   | -33   | -33   | -33   | -33   | -33   | -33    |
| Flash Point, ASTM D92, °C                         | 265   | 265   | 265   | 265   | 265   | 265   | 265   | 260    |
| Copper Strip Corrosion, ASTM D130 100°C, 24 hours | 1B    | 1B    | 1B    | 1B    | 1B    | 1B    | 1B    | 1B     |
| Rust Protection, ASTM D665 distilled water        | Pass  | Pass  | Pass  | Pass  | Pass  | Pass  | Pass  | Pass   |
| Four Ball Wear, ASTM D4172, mm Wear Scar Diameter | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4    |
| FZG Scuffing Test, ISO Fail Load Stage            | 10    | 12+   | 12+   | 12+   | 12+   | 12+   | 12+   | 12+    |

## Gear efficiency†

Worm gears are typically just 75 to 80 percent efficient, but PAG-based lubricants, such as Mobil Glygoyle™ oils, can provide improved efficiency compared to mineral- and PAO-based lubricants. The efficiency gain is largely due to the lower traction coefficient of PAG oils. Through this efficiency, Mobil Glygoyle oils can help deliver energy savings.



ISO 460; 20:1 ratio; 150% rated load

### Industrial Lubricants



### Advancing Productivity™

### Safety

Long oil life and drain intervals, as well as enhanced equipment life and reliability, can help minimize maintenance and the safety risks associated with employee-equipment interaction.

### Environmental Care‡

Energy efficiency compared to mineral-based and PAO-based synthetic oils can potentially reduce power consumption. Long oil life can help minimize the need for product and packaging disposal.

### Productivity

Minimized maintenance downtime for relubrication and equipment repair can help enhance operational productivity.

\*Typical properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [exxonmobil.com](http://exxonmobil.com). ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

†Energy efficiency relates solely to the fluid performance when compared with reference oils of the same viscosity grade test in a worm gearbox under controlled conditions. Efficiency improvements will vary based on gearbox type, operating conditions and applications.

‡Visit [mobilindustrial.com](http://mobilindustrial.com) to learn how certain Mobil-branded lubricants may provide benefits to help minimize environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

© 2015 Exxon Mobil Corporation. All rights reserved.

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its affiliates unless otherwise noted.